# Special Issue

# Green Aerospace Propulsion Technology and Sustainable Energy System Innovation

## Message from the Guest Editors

Driving sustainable aviation is a significant challenge, and one that requires important new green aerospace propulsion technologies and new energy systems to support them. This Special Issue is devoted to exploring the latest technology and research on low-emission propulsion, alternative fuels, and energy-efficient systems designed to decarbonize the aerospace sector. Topics of interest include, but are not limited to, the following:

- Hydrogen and ammonia propulsion: Feasibility, combustion characteristics, and integration challenges.
- Electric and hybrid–electric aircraft: Advances in battery technology, fuel cells, and hybrid architectures.
- Sustainable aviation fuels (SAFs): Development, life cycle analysis, regulatory considerations, etc.
- Plasma-assisted combustion: Improving efficiency and reducing emissions with plasma technologies.
- Advanced thermal management systems: Waste heat recovery and cooling strategies to achieve sustainable propulsion.
- AI and Digital Twin applications to optimize performance and predictive maintenance for propulsion.

## Guest Editors


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## Deadline for manuscript submissions

closed (31 March 2026)


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# About the Journal

## Message from the Editor-in-Chief

*Energies* is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

## Editor-in-Chief

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